



**CDS Connect Work Group  
Meeting Summary  
January 17, 2019  
3:00-4:30 PM EST**

## Attendees

<b>AHRQ Sponsors</b>	Ed Lomotan, Shafa Al-Showk, Nicholas Scoulios
<b>Work Group Members</b>	Alex Dummett, Andrey Soares, Apurva Desai, Bijal Shah, Bob Badgett, Crystal Snare, Dan Pardock, Danny van Leeuwen, Dave DeCaprio, David Foley, Edna Boone, Frank Sonnenberg, India Duncan, James Ryan, Janet Hui, Jeremy Michel, John Kefelas, John Poikonen, Joshua Richardson, Julia Skapik, Kevin Larsen, Maria Michaels, Michael Wittie, Molly McCoy, Noam Artz, Patrick O'Connor, Preston Lee, Raajiv Ravi, Randolph Barrows, Ronilda Lacson, Ryan Mullins, Shaun Campbell, Stephen Loureiro, Steve Hasley, Vojtech Huser
<b>MITRE CDS Connect Project Members</b>	Ginny Meadows, Chris Moesel, Dave Winters, Dylan Mahalingam, Julia Afeltra, Lacy Fabian, Sharon Pacchiana, Sharon Sebastian

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## Agenda

- Welcome and brief review of meeting objectives and the agenda
- Analysis of the Trust Framework Work Group (TFWG) recommendations for promoting trust
- Authoring Tool (AT) Fast Healthcare Interoperability Resources (FHIR) Standard for Trial Use (STU) 3 support
- Repository account enhancement options
- Option Year (OY) 2 pilot update and artifact development
- CDS Connect Sustainability Path project update
- Closing

## Action Items

- None

## Meeting Summary

### Welcome

MITRE started the meeting by welcoming participants and reviewing the names of work group members participating in the call. Maria Michaels then reviewed the agenda and facilitated the rest of the discussion.

### Overall:

The meeting opened with a discussion of the CDS Connect analysis of the TFWG recommendations for promoting trust in a clinical decision support (CDS) ecosystem. In addition, a demonstration and discussion on new functionality in the AT to support FHIR STU3 was provided as well as a discussion of potential enhancements to the Repository account options. An update was shared about this year's artifact development and pilot outreach status, as well as an update on the CDS Connect Sustainability Path project. During each presentation, work group member ideas, suggestions and concerns were encouraged.

### Trust Framework Work Group Recommendations for Promoting Trust in a CDS Ecosystem, Sharon Sebastian and Sharon Pacchiana (MITRE)

Sharon Pacchiana began the presentation by providing background on the TFWG's whitepaper on recommendations for ensuring trust among actors in a CDS ecosystem. Actors are those involved in creating, managing, encoding, distributing and implementing CDS. The TFWG first developed information to help with a shared understanding of what trust is, especially related to CDS. Next, they defined the actors that would be involved, and the trust relationships between the actors. They also determined 9 key trust attributes, along with 33 recommendations to address those attributes.

Sharon Sebastian reviewed these recommendations and mapped them to specific CDS functional use cases. Each recommendation was evaluated against any existing metadata definitions and intent; technical capabilities; and process and policy. A status was assigned for each recommendation (i.e. met, partially met, in development, parking lot, out of scope). Overall analysis of how well CDS Connect meets each recommendation was discussed.

Questions and additional comments were invited from work group members:

- a. A work group member who also participated in the TFWG commented that he felt MITRE had done a good job on the analysis, as the TFWG recommendations were complex, and the whitepaper required careful review.
  - i. Sharon Sebastian mentioned that the analysis spreadsheet created by Sharon Pacchiana was a great help in mapping out the trust recommendations. (This spreadsheet was emailed to WG members prior to the January meeting)
- b. Maria Michaels complimented the presentation and mentioned that she also felt there was a lot of complexity in these recommendations. She offered testing of the trust recommendations with any of the Centers for Disease Control (CDC) CDS artifacts.
- c. Sharon Pacchiana commented that it helped to continue to review where each recommendation fit into the functional use cases for CDS Connect.
- d. Josh Richards, one of the TFWG co-chairs, provided his thanks in the chat box, and offered his availability for any follow up.

### CDS Connect Authoring Tool FHIR STU3 Support, Dylan Mahalingam (MITRE)

Dylan presented the new capability to accommodate STU3 Clinical Quality Logic (CQL) output in the AT. He demonstrated that now, when building a new artifact, the "Download CQL" button has a drop-down to select which version of CQL the author wants to create, Draft Standard for Trial Use (DSTU) 2 or STU3. The download of CQL will be appropriately formatted according to the FHIR version selected. Dylan also explained that users can run the testing capabilities in either FHIR version.

Questions and additional comments were invited from work group members:

- a. A work group member asked whether this was available in the AT now. Dylan responded that yes, it is now available.

### CDS Connect Repository Account Enhancement Options, Dave Winters (MITRE)

Dave Winters provided information on some potential enhancements to the CDS Connect user accounts. He explained that some of these changes would be needed in order to address the related recommendations of the TFWG.

Dave began by explaining the current capabilities for the two existing types of user accounts, that of a Repository contributor and an AT user. . He then discussed potential new capabilities, which would include adding a third type of account holder, for a user that was only consuming CDS from the Repository. The new capabilities would pertain to all account types and are in three main categories.

- Notifications, alerts or updates – providing information to account holders.
  - For example, an account holder could subscribe to specific artifacts, or a specific topic, such as a new blog posting, and then receive any relevant notifications.
- The second category would include allowing comments and feedback from consumers of artifacts to contributors.
- The third category would include subscribing to topic interests and allow more personalized browsing with the new artifact discovery design that's currently in development.

Dave then provided information on a proposed plan, and requested feedback on the priorities and phases as defined:

- Phase 1 - getting information out to consumers, including automated system notifications, or subscriptions to specific artifacts
- Phase 2 – enabling subscriptions to specific topic areas, and more personalized browsing of topic interests
- Phase 3 – Including automated notification on artifact or blog updates, as well as potentially enabling comments on artifacts

Dave asked these questions of the Work Group:

- Do the priorities make sense?
- Is the proposed roll out reasonable?
- Are there other aspects not listed here but that should be considered?

Work group member comments:

- a. Maria Michaels asked about what would happen if you are both a contributor and a consumer?
  - i. Dave stated that it would allow for that, and shouldn't matter, as it should be seamless to the user and dependent on the context.

- b. A work group member asked if any artifact feedback could be directed to a specific person rather than the contact person on the artifact?
  - i. Dave commented that this is the type of functionality that would need to be further researched. For example, should artifacts have a single point of contact, or list individual contributors to the artifact?
- c. Maria Michaels mentioned that the comment or question could be technical in nature, or more content-specific - so how would that be addressed?
  - i. Sharon Sebastian commented that most of the contributors are clinical, but that depends on each artifact so this would be a good thing to consider moving forward.

### Update on OY2 Pilot and Artifact Development, Ginny Meadows (MITRE)

Ginny Meadows provided a reminder of the pilot criteria that is being used to consider potential pilot partners, as well as an update on the current status of the pilot outreach. All detailed discussions have been completed with potential pilot organizations. A meeting was held with AHRQ in early January, prior to completing those discussions, to discuss initial impressions at that point. The goal is to determine the most optimal pilot site within the next two weeks. Once pilot selection is finalized, additional work will begin to formulate the CDS artifact based on pilot CDS focus.

### Update on the CDS Connect Sustainability Path Project, Lacy Fabian (MITRE)

Lacy Fabian provided an update on the Sustainability Path project. The team is currently developing a “current state” document to represent all the pieces of CDS Connect. Other activities include:

- Held several meetings with different stakeholders, including one with interested members of this work group
- Have had several rounds of additional discussions with other stakeholders
- Gathering themes to include in the Environmental Scan

Once these are completed, the team will focus on more detailed options for a proposed path forward.

Lacy mentioned that the team is still interested in understanding feedback from the CDS Connect users, so if anyone on the work group has recommendations of specific people they should talk to, please let Lacy know.

### Open Discussion and Closeout

Maria Michaels provided information on CDS Connect-related events at HIMSS19:

- Thursday, February 14 (Ed Lomotan, AHRQ & Maria Michaels, CDC)
  - Time: 8:30am - 9:30am
  - Session ID: 203 Maximizing Synergy Between Federal Health Information and Technology Programs
  - Room: W314B
- Interoperability Showcase: Tuesday, 2/12 – Thursday 2/14
  - Use Case: Bundled Payment and Chronic Pain Management
  - Presentations at 45 minutes past the hour (each 25 minutes):
    - Tuesday, February 12 between 10a-6p
    - Wednesday, February 13 between 9:30a-6p
    - Thursday, February 14 between 9:30a-4p